

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A radio base station for performing a radio communication with a plurality of mobile stations, each of which has a plurality of antennas, the radio base station being configured for ~~characterized by~~:

~~a capacity to establish~~ establishing a radio connection with each of the plurality of mobile stations, optionally using a space division multiplex method; and

when communicating with only one mobile station using time-division time slots, allowing the mobile stations to keep the diversity reception, and when starting communicating with the second or further mobile station using the space division multiplex method, transmitting a diversity reception stop instruction to the one mobile station already connected

~~when the radio base station and the plurality of mobile stations have established radio connection using the space division multiplex method, and the radio base station starts a communication with one of the plurality of mobile stations using the space division multiplex method, transmitting to the mobile station an instruction to stop performing a diversity reception that uses a plurality of antennas, and to start performing a reception that uses a single antenna.~~

2. (Original) The radio base station of Claim 1 comprising:  
a creation means for creating a piece of traffic channel assignment information after receiving a traffic channel assignment request from a mobile station;

an attachment means for attaching the diversity reception stop instruction to the piece of traffic channel assignment information; and

a transmission means for transmitting the piece of traffic channel assignment information with the diversity reception stop instruction, to the mobile station as a response to the traffic channel assignment request.

3. (Original) The radio base station of Claim 1 comprising:

a determination means for determining, after receiving a traffic channel assignment request from a mobile station, whether to allow the mobile station to space-division-multiplex with another mobile station which has communicated with the radio base station;

a creation means for creating a piece of traffic channel assignment information when the determination means determines to allow the mobile station to space-division-multiplex with the other mobile station;

an attachment means for attaching the diversity reception stop instruction to the piece of traffic channel assignment information; and

a transmission means for transmitting the piece of traffic channel assignment information with the diversity reception stop instruction, to the mobile station as a response to the traffic channel assignment request, and transmitting the diversity reception stop instruction to the other mobile station through a traffic channel.

4-6. (Cancelled)